

NASA Grant NAG5-10455
Mineralogic and Petrologic Studies of Meteorites
Period of 4/01/01-3/31/02
FINAL REPORT

The following papers were submitted during the reporting period. With the termination of this grant, my history of funding by NASA, unbroken since 1967, ends.

Petaev M. I., Krot A. N., and Wood J. A. (2001) Condensation in fractionated nebular systems. I. Mineral equilibria in gas, ice, and tar-depleted reservoirs (abstract). *Meteorit. Planet. Sci.* **36**, A161-A162.

Petaev M. I. and Wood J. A. (2001) Condensation in fractionated nebular systems. II. Formation of enstatite chondrites in dust-enriched nebular reservoirs (abstract). *Meteorit. Planet. Sci.* **36**, A162.

Ivanova M. A., Petaev M. I., MacPherson G. J., Nazarov M. A., Taylor L. A., and Wood J. A. (2001) A record of nebular processes in different constituents of the CH chondrite NWA 470 (abstract). *Meteorit. Planet. Sci.* **36**, A88-A89.

Meibom A., Petaev M. I., Krot A. N., Keil K., and Wood J. A. (2001) Growth mechanism and additional constraints on FeNi metal condensation in the solar nebula. *J. Geophys. Res.* **106**, 32797 – 32801.

Petaev M. I., Wood J. A., Meibom A., Krot A. N., and Keil K. (2002) The ZONMET thermodynamic and kinetic model of metal condensation. *Geochim. Cosmochim. Acta*, in press.

Ivanova M. A., Petaev M. I., Nazarov M. A., Taylor L. A., MacPherson G. J., and Wood J. A. (2002) The first occurrence of CaAl_2O_4 in a CAI from the new CH chondrite NWA 470. *Meteorit. Planet. Sci.*, revised version submitted.